BUILDING TRUST

PRODUCT DATA SHEET

Sika® WP Shield-104 P

APP MODIFIED BITUMINOUS MEMBRANES

DESCRIPTION

This type of membrane is manufactured by modifying premium grade asphalts with atactic poly propylene and specially reinforced with non- woven polyester. This type of membrane show excellent strength, elasticity and durability.

USES

It is used as waterproofing/ damp proofing membrane for protection of various substrates in wide range of applications.

- Medium to large Roof slabs
- Basements and raft slabs
- Underground car parks etc.
- Underpass

CHARACTERISTICS / ADVANTAGES

APPROVALS / STANDARDS

Conforms to : EN 12311-1, ASTMD 5147, ASTM D36,EN 1928-1, EN 1849-1

PRODUCT INFORMATION

Packaging	10 X 1m Roll	
Appearance / Colour	Black membrane, Upper finish: PE Film, Underside finish: PE Film	
Shelf Life	12 months if stored as per recommendations	
Storage Conditions	Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc.	
Length	10m	
Width	1m	
Thickness	4 (-0.2)/ (+0.3) mm	EN 1849-1

TECHNICAL INFORMATION

Tensile Strength	600 ± 150 N/5cm (L) 450 ± 150 N/5cm (T)	EN12311-1
Elongation	40 ± 10 %, (L) 40 ± 10 %, (T)	EN 12311-1
Tear Strength	300 ± 100 N,(L) 200 ± 100 N,(T)	ASTM D5147
Softening Point	> 145 °C	ASTM D36
Flexibility at low Temperature	-2 °C (Cold Flexibility)	EN 1109
Flow Resistance	0 @ 120 °C, 2 hrs	EN 1110
Water Tightness	≥ 10 kPa	EN 1928-1
Ambient Air Temperature	+10 °C min/ +50 °C max	
Substrate Temperature	+ 10 °C min/ + 60 °C max	
Substrate Moisture Content	< 6%	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete, mortar surfaces must be clean, free from grease, oil, and loosely adhering particles. Steel and iron surfaces must be free from scale, rust, grease and oil.

SUBSTRATE PREPARATION

New concrete should be cured for at least 28 days and should have a pull off strength ≥1.5 N/mm^2. Cementitiousor Mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface.Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed.The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any primer application.

APPLICATION METHOD / TOOLS

- After the primer applied surface gets dried align the membrane on the substrate by unrollinng the membrane.
- Post its alignment re-roll the membrane half way from both sides.
- Use gas burner to heat the substrate and thermofusible film on the underside on lower face of the membrane.When the thermo-fusible film and the layer of bitumen melts after torching the membrane is ready to stick.
- Roll and press firmly against the substrate to bond.The bitumen should ooze out from the edges whichwill make the edges watertight. After the first roll istorched align the second roll next to the first and repeat the same procedure as above, also the overlapmustbe 80mm for the side and 150 mm at the ends.
- The membranes should be laid in a staggered manner so that the seams are not in a line.
- All the details at edges, parapet walls, pipe penetrations etc shoud also be sealed with extra care to ensurefull bondage. The edges should be sealed well into the grooves.
- Detailings must be treated with utmost care such as Pipe Penetrations, Lightening Conductors Clips, Pedestals etc with proper overlaps.Sika Technical Services team to be consulted in case of any query.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika India Pvt. Ltd.
620, Diamond Harbour Road
Commercial Complex II
Kolkata - 700 034
Tel : +91 33 24472448
Fax : +91 33 23978688
Mail : info.india@in.sika.com